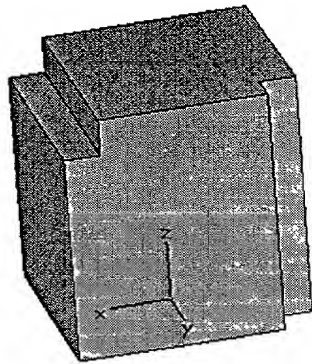
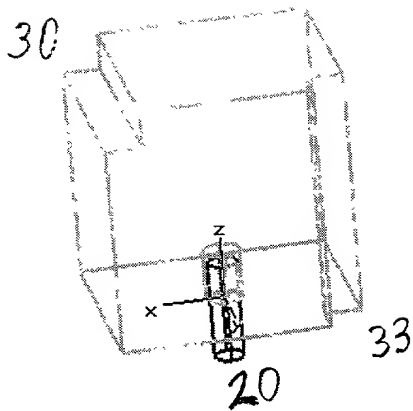


TOP SECRET 4440



10

(a)



10

(b)

Figure 1.

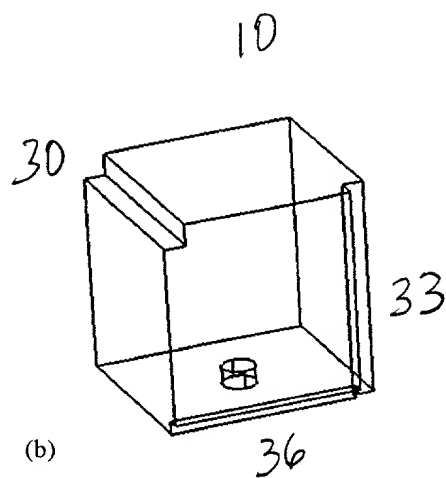
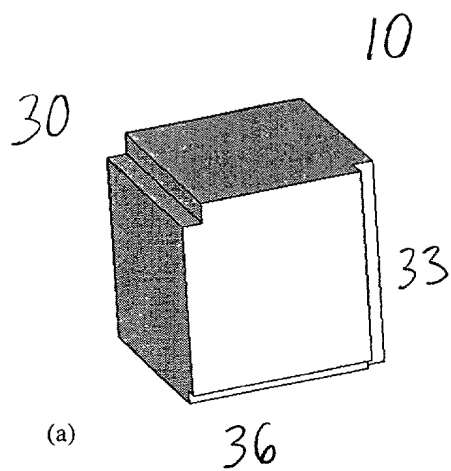


Figure 3.

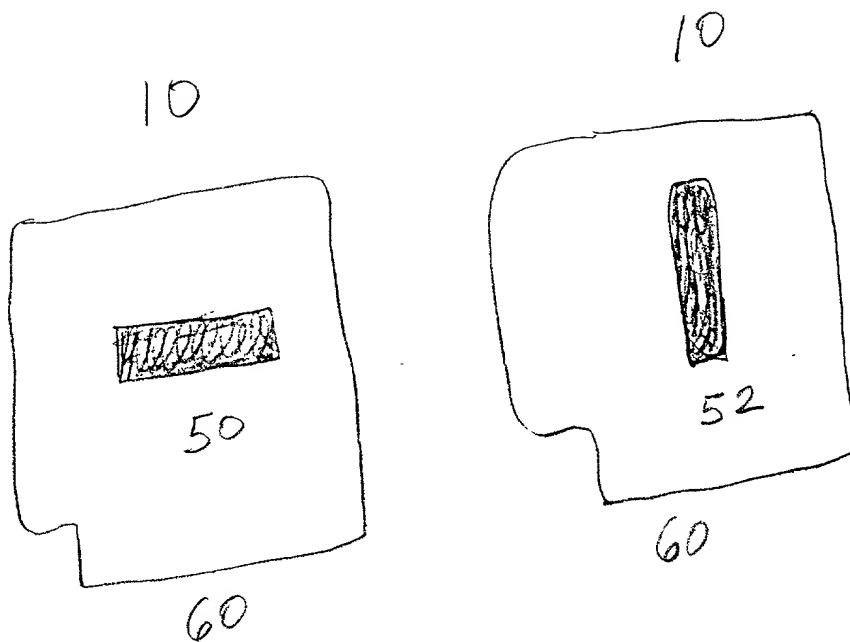
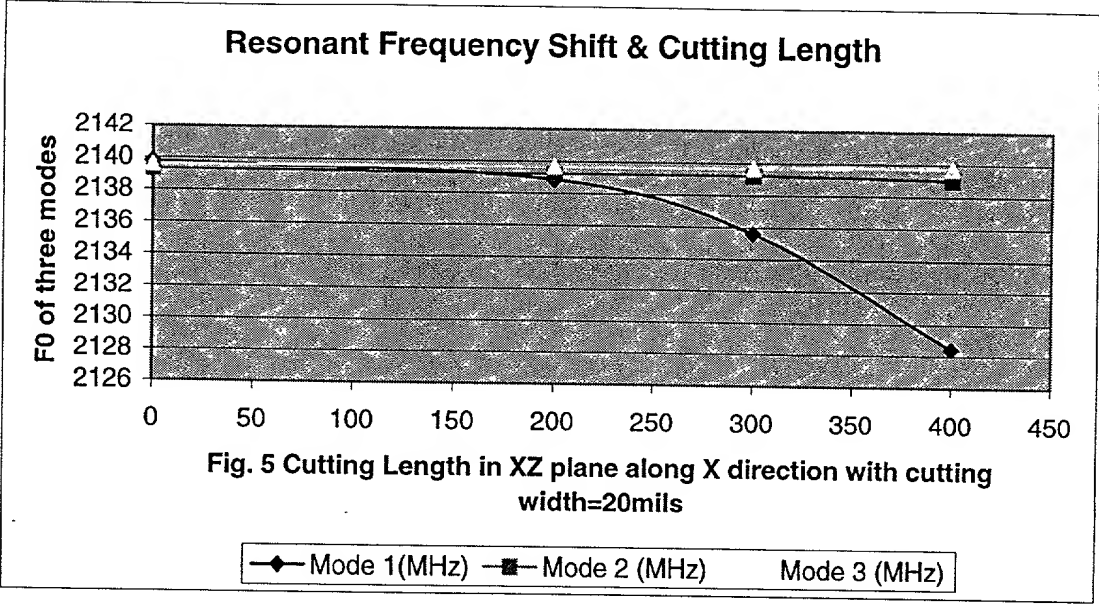


Figure 4



Resonant Frequency Shift & Cutting Length

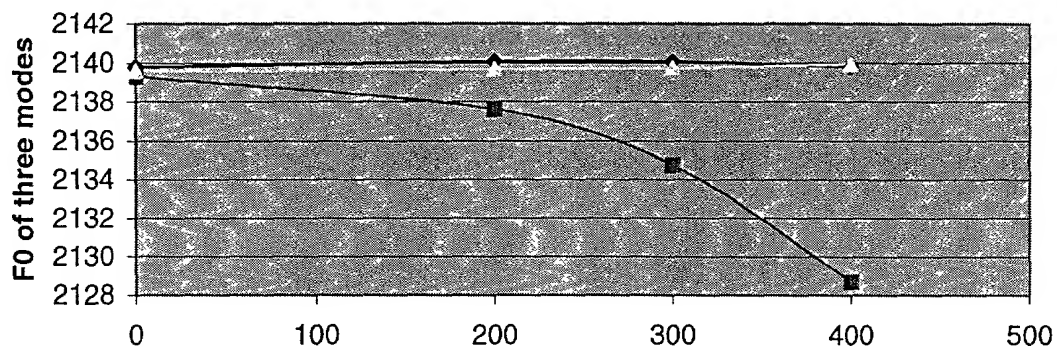
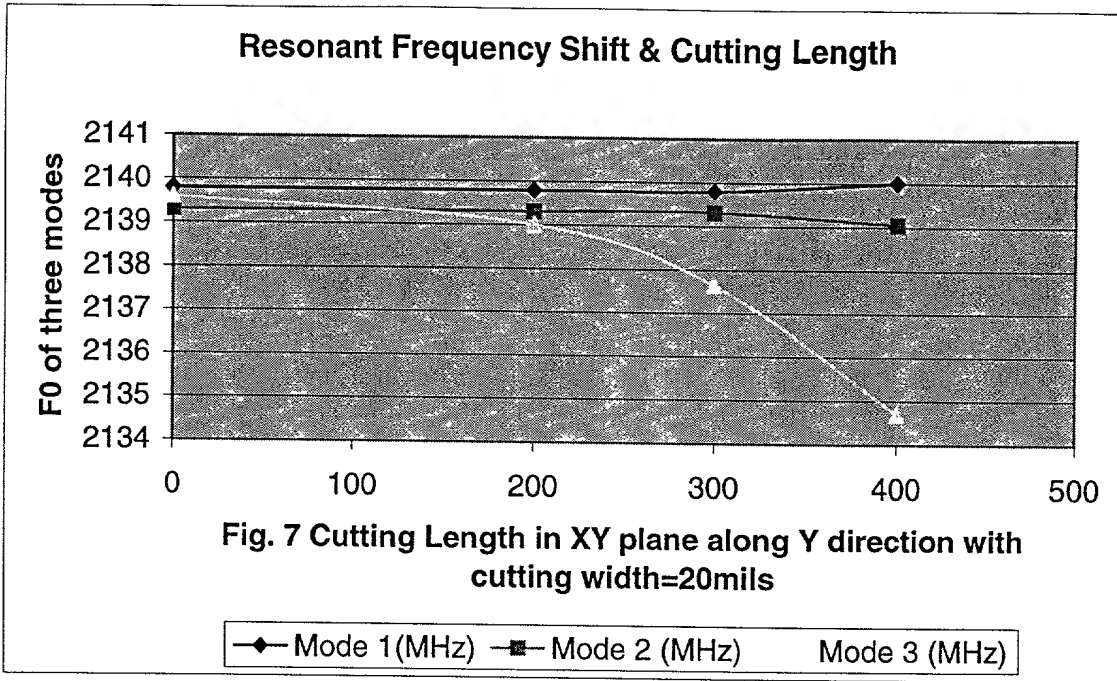


Fig. 6 Cutting Length in XY plane along X direction with cutting width=20mils

Mode 1(MHz) Mode 2 (MHz) Mode 3 (MHz)



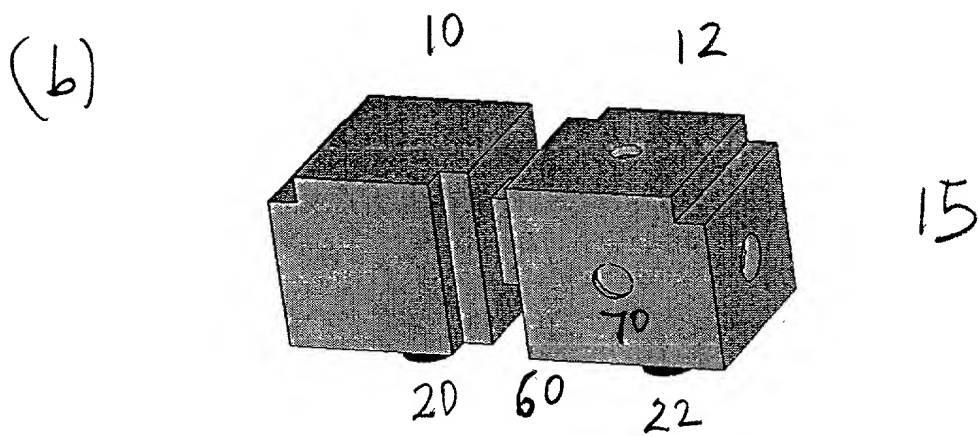
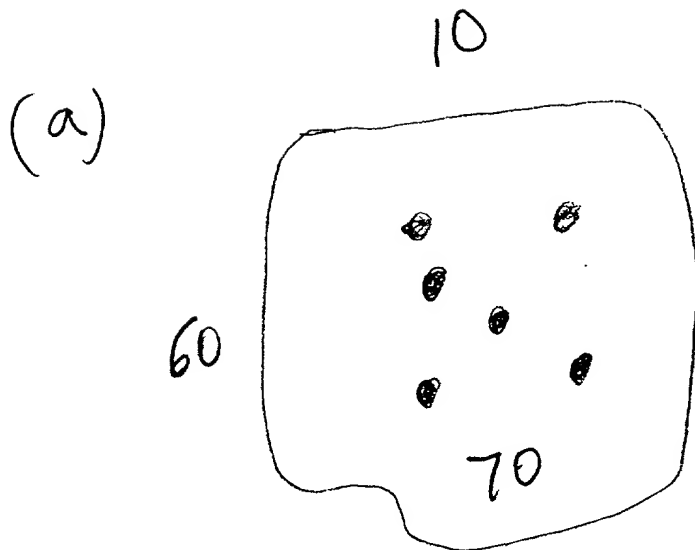
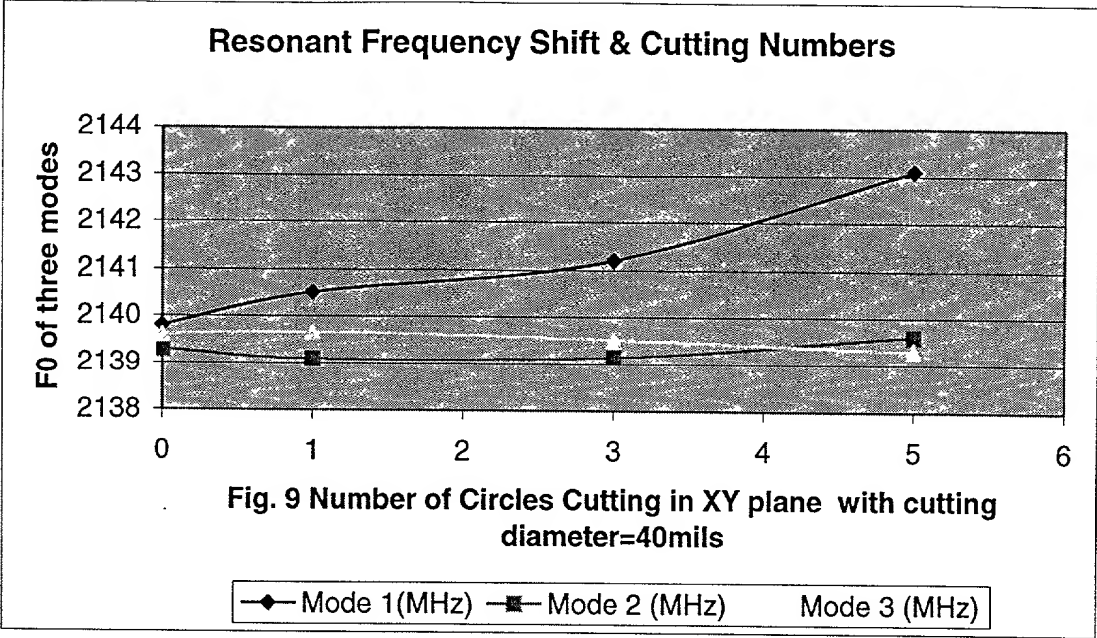
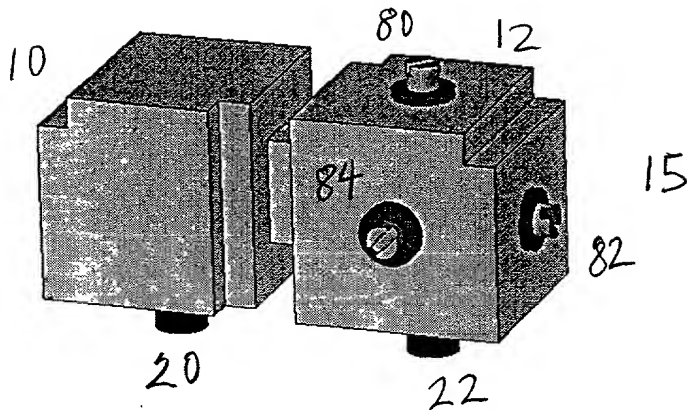


Figure 8



(a)



(b)

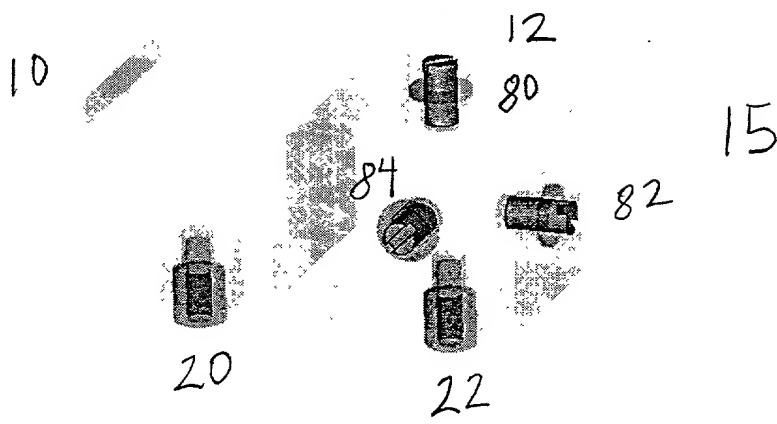


Figure 10.

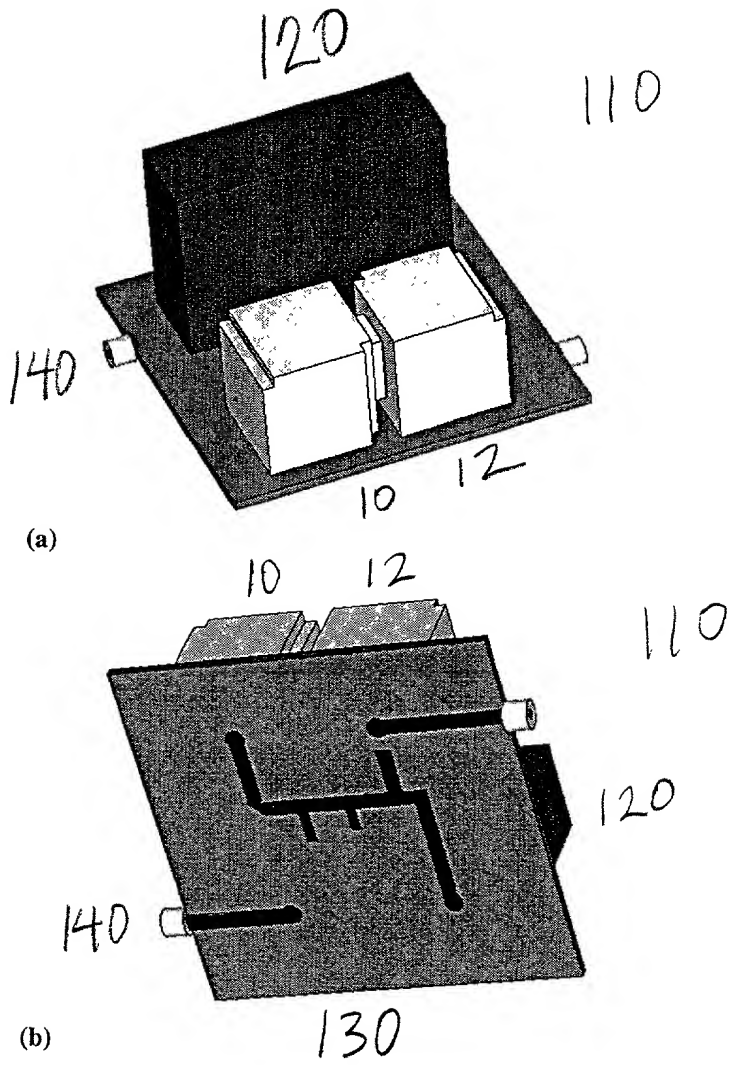


Figure 12.

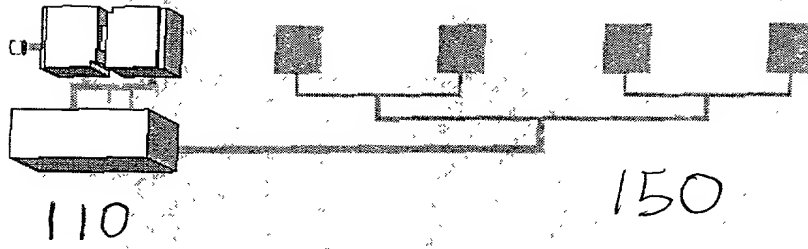


Figure 13.

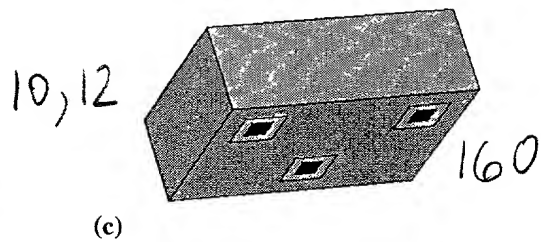
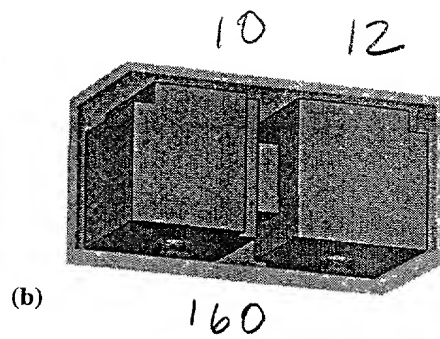
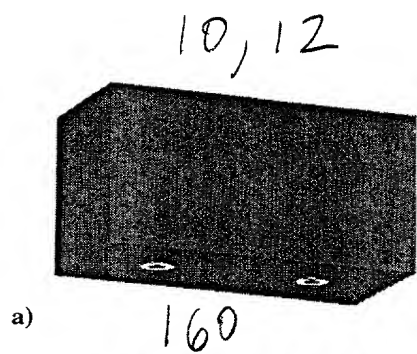


Figure 14.

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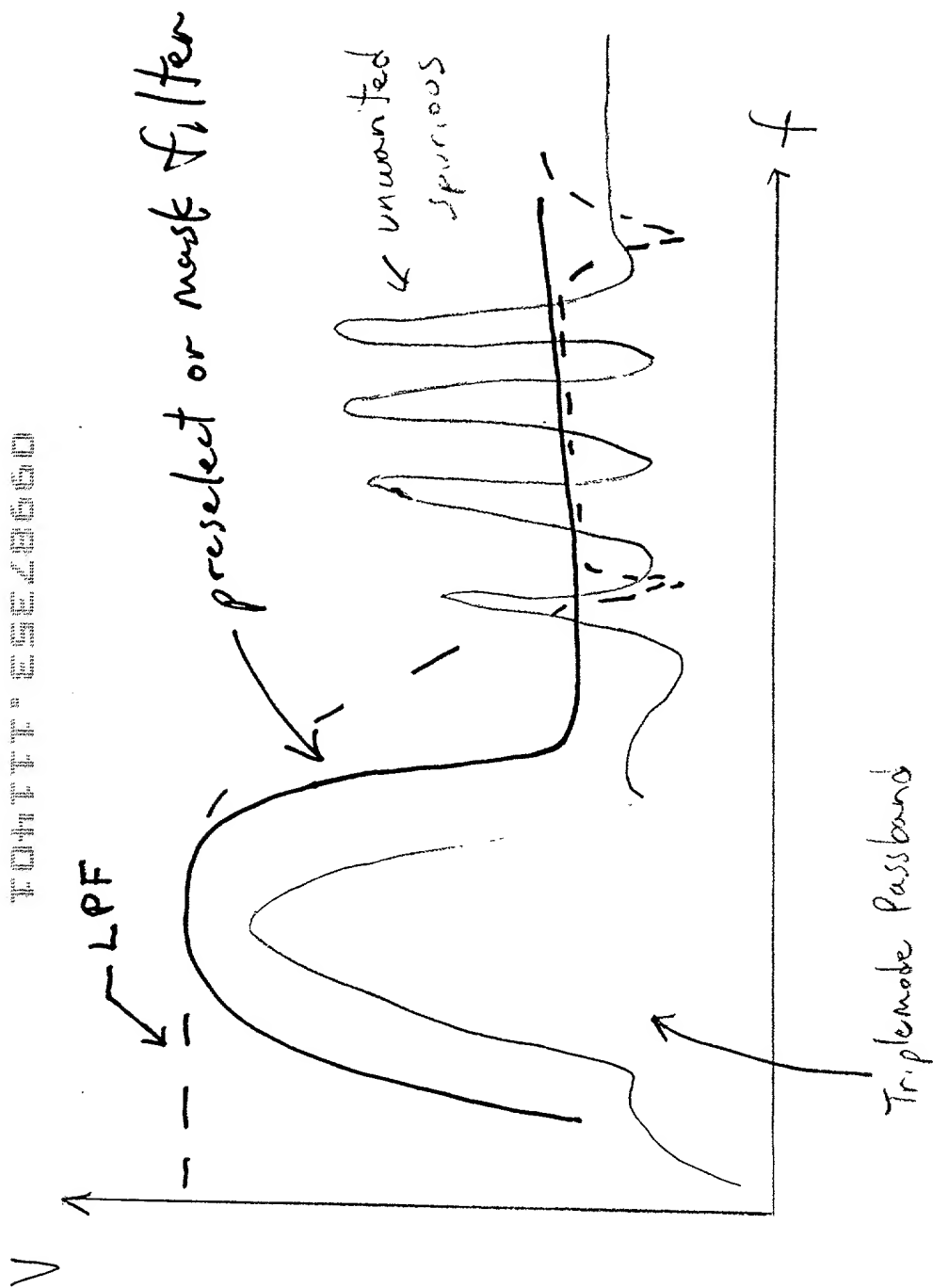


Figure 15

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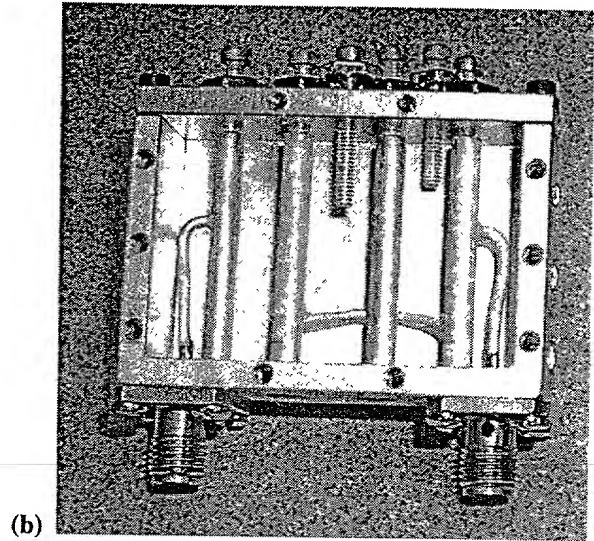
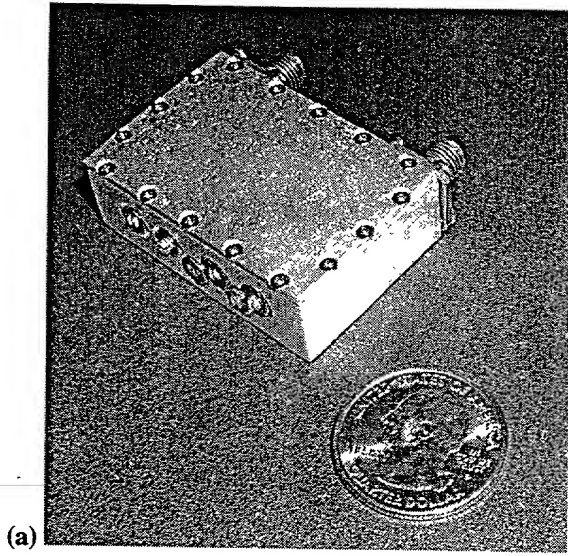


Figure 16.